APPENDIX A

CLAIMS AFTER ENTRY AMENDMENT DATED 2/01/01

U.S. Patent Application Serial No. 09/284,114

Entitled: A MOUSE STRAIN WITH NATURAL ONSET

OF AUTOIMMUNE ARTHRITIS

Applicant: Shimon Sakaguchi Filing Date: April 7, 1999 Hiraki Ref.: PH-425PCT-US F&R Ref.: 07898-038001



RECEIVED

FEB 16 2001

TECH CENTER 1600/2900

- 1. (Twice amended) An inbred mouse strain, derived from BALB/c mice, selected for the trait of developing autoimmune arthritis, wherein the inbred mouse strain is denoted SKG.
- 2. (Amended) The inbred mouse strain of claim 1, wherein the autoimmune arthritis comprises rheumatoid arthritis.
- 3. (Amended) The inbred mouse strain of claim 1, wherein the autoimmune arthritis is characterized by arthritis developing in the joints of the forelegs and hind legs and progressing to joint stiffening.
- 4. (Amended) The inbred mouse strain of claim 1, wherein the mouse produces an autoantibody reactive with type II collagen.
- 5. (Amended) The inbred mouse strain of claim 1, wherein onset of autoimmune arthritis begins at about 3 to 4 months after birth of the mouse.
- 6. (Amended) A method of producing an SKG mouse derived from a BALB/c mouse, wherein the SKG mouse comprises the trait of developing an autoimmune arthritis, the method comprising the steps of:
- (a) breeding a selected SKG mouse with a BALB/c mouse to produce offspring;
 - (b) screening the offspring for the trait of autoimmune arthritis; and

CLAIMS AFTER ENTRY AMENDMENT DATED 02/01/01 U.S. Patent Application Serial No. 09/284,114 Entitled: A MOUSE STRAIN WITH NATURAL ONSET OF AUTOIMMUNE ARTHRITIS Applicant: Shimon Sakaguchi Filing Date: April 7, 1999 Hiraki Ref.: PH-425PCT-US F&R Ref.: 07898-038001 Page 2 of 3 (c) identifying an offspring that develops autoimmune arthritis, thereby producing the SKG mouse comprising the trait of developing an autoimmune arthritis. (Amended) The method of claim 6 wherein the BALB/c mouse is 7. an SKG mouse. (Amended) A method of producing a mouse that develops 8. autoimmune arthritis comprising: breeding an SKG mouse with a second mouse to produce (a) offspring; screening the offspring for onset of autoimmune arthritis; and (b) identifying an offspring that develops autoimmune arthritis, (c) thereby producing a mouse that develops autoimmune arthritis. The method of claim 8 wherein the second mouse is not a BALB/c 9. mouse strain. A method of identifying a therapy that decreases a symptom of 10. rheumatoid arthritis comprising: treating a mouse of claim 1 with a potential therapy; and (a) determining whether the potential therapy decreases a symptom of (b) autoimmune arthritis in the mouse, wherein identification of a potential therapy that decreases a symptom of autoimmune arthritis in the mouse identifies a therapy that decreases a symptom of rheumatoid arthritis.

CLAIMS AFTER ENTRY AMENDMENT DATED 02/01/01

U.S. Patent Application Serial No. 09/284,114

Entitled: A MOUSE STRAIN WITH NATURAL ONSET

OF AUTOIMMUNE ARTHRITIS Applicant: Shimon Sakaguchi Filing Date: April 7, 1999 Hiraki Ref.: PH-425PCT-US F&R Ref.: 07898-038001

Page 3 of 3

11. The method of claim 10, wherein the symptom is selected from the group consisting of: arthritis in a foreleg or hind leg joint, joint stiffening, destruction of joint cartilage or bone, lymphocyte infiltration of joint cartilage or bone and production of type II collagen autoantibody.

10069269.doc